

**GENERAL INSTRUCTIONS:** Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

### I. SITE IDENTIFICATION

A. SITE NAME <u>U.S. STEEL PLANT</u>		B. STREET (or other identifier) <u>1807 E. 28th St</u>	
C. CITY <u>LORAIN</u>	D. STATE <u>OHIO</u>	E. ZIP CODE <u>44055</u>	F. COUNTY NAME <u>LORAIN</u>

### G. SITE OPERATOR INFORMATION

1. NAME <u>U.S. STEEL</u>		2. TELEPHONE NUMBER <u>216-277-2433</u>	
3. STREET	4. CITY	5. STATE	6. ZIP CODE

### H. REALTY OWNER INFORMATION (if different from operator of site)

1. NAME		2. TELEPHONE NUMBER	
3. CITY	 EPA Region 5 Records Ctr. 320910		5. ZIP CODE
		4. STATE	

### I. SITE DESCRIPTION

PLANT FACILITY INCLUDING HOLDING POND FOR COOLING WATER (CONTACT W/ PLANT LINE + NEW CONTACT)

### J. TYPE OF OWNERSHIP AND IMPROVEMENT FOR POND DREDGING

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

### II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)	B. APPARENT SERIOUSNESS OF PROBLEM		
	<input type="checkbox"/> 1. HIGH	<input type="checkbox"/> 2. MEDIUM	<input type="checkbox"/> 3. LOW <input checked="" type="checkbox"/> 4. NONE

### C. PREPARER INFORMATION

1. NAME <u>DANIEL J. COZZA</u>	2. TELEPHONE NUMBER <u>312-663-9415</u>	3. DATE (mo., day, & yr.) <u>10-10-80</u>
-----------------------------------	--	--

### III. INSPECTION INFORMATION

#### A. PRINCIPAL INSPECTOR INFORMATION

1. NAME <u>ROBERT BARTHOLOMEW</u>	2. TITLE <u>TEAM LEADER - BIOLOGIST</u>
3. ORGANIZATION <u>ECOLOGY AND ENVIRONMENT</u>	4. TELEPHONE NO. (area code & no.) <u>312-663-9415</u>

#### B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
<u>ANNE SAUSE</u>	<u>ECOLOGY AND ENVIRONMENT</u>	<u>312-663-9415</u>
<u>DANIEL COZZA</u>	<u>ECOLOGY AND ENVIRONMENT</u>	<u>312-663-9415</u>

#### C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
<u>KARL E. KUMMANT</u>	<u>PLANT MANAGER 216-277-2433</u>	<u>1807 E 28th St Lorain Ohio</u>
<u>MIKE SCHACK</u>	<u>ENGINEER</u>	

## III. INSPECTION INFORMATION (cont. d)

## D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED

## E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED

## F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS

G. DATE OF INSPECTION  
(mo., day, & yr.)

H. TIME OF INSPECTION

I. ACCESS GAINED BY: (credentials must be shown in all cases)

10-8-80

4:15 pm

☒ 1. PERMISSION☐ 2. WARRANT

J. WEATHER (describe)

Sunny, warm

## IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE		NO SAMPLES TAKEN	
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

## B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.).

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
	None Taken	

## IV. SAMPLING INFORMATION (continued)

## C. PHOTOS

1. TYPE OF PHOTOS

☒ 1. GROUND ☐ 2. AERIAL

2. PHOTOS IN CUSTODY OF

US EPA FILES

## D. SITE MAPS

1. ES. SPECIFY LOCATION OF MAPS.

NO

## E. COORDINATES

1. LATITUDE (deg.-min.-sec.)

2. LONGITUDE (deg.-min.-sec.)

## V. SITE INFORMATION

## A. SITE STATUS

☒ 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)☐ 2. INACTIVE (Those sites which no longer receive wastes.)☐ 3. OTHER (specify):  
(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

## B. IS GENERATOR ON SITE?

☐ 1. NO☒ 2. YES (specify generator's four-digit SIC Code):

## C. AREA OF SITE (in acres)

## D. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO☒ 2. YES (specify): PLANT BUILDINGS

## VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

<input checked="" type="checkbox"/> A. TRANSPORTER	<input checked="" type="checkbox"/> B. STORER	<input checked="" type="checkbox"/> C. TREATER	<input checked="" type="checkbox"/> D. DISPOSER
1. RAIL	1. PILE	1. FILTRATION	1. LANDFILL
2. SHIP	<input checked="" type="checkbox"/> 2. SURFACE IMPOUNDMENT	2. INCINERATION	2. LANDFARM
3. BARGE	3. DRUMS	3. VOLUME REDUCTION	3. OPEN DUMP
4. TRUCK	4. TANK, ABOVE GROUND	4. RECYCLING/RECOVERY	4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	5. CHEM./PHYS./TREATMENT	5. MIDNIGHT DUMPING
6. OTHER (specify):	6. OTHER (specify):	6. BIOLOGICAL TREATMENT	6. INCINERATION
		7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify):
		9. OTHER (specify):	

POUD FOR COOLING WATER  
(CONTACT + NON-CONTACT)  
CONTACT WATER CONTAINS BURNING LIME

E. SUPPLEMENTAL REPORTS: For each category listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports have been completed and attached to this form.

- ☐ 1. STORAGE ☐ 2. INCINERATION ☐ 3. LANDFILL ☐ 4. SURFACE IMPOUNDMENT ☐ 5. DEEP WELL
- ☐ 6. CHEM./BIO./PHYS. TREATMENT ☐ 7. LANDFARM ☐ 8. OPEN DUMP ☐ 9. TRANSPORTER ☐ 10. RECYCLOR/RECLAIMER

## VII. WASTE RELATED INFORMATION

## A. WASTE TYPE

☐ 1. LIQUID☐ 2. SOLID☒ 3. SLUDGE☐ 4. GAS

## B. WASTE CHARACTERISTICS

☐ 1. CORROSIVE☐ 2. IGNITABLE☐ 3. RADIOACTIVE☐ 4. HIGHLY VOLATILE☐ 5. TOXIC☐ 6. REACTIVE☐ 7. INERT☐ 8. FLAMMABLE☐ 9. OTHER (specify):

## C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

## VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT	
UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE	
<input checked="" type="checkbox"/> (1) PAINT, PIGMENTS		<input checked="" type="checkbox"/> (1) OILY WASTES		<input checked="" type="checkbox"/> (1) HALOGENATED SOLVENTS		<input checked="" type="checkbox"/> (1) ACIDS		<input checked="" type="checkbox"/> (1) FLYASH		<input checked="" type="checkbox"/> (1) LABORATORY, PHARMACEUT.	
(2) METALS SLUDGES		(2) OTHER(specify):		(2) NON-HALOCNTD. SOLVENTS		(2) PICKLING LIQUORS		(2) ASBESTOS		(2) HOSPITAL	
(3) POTW				(3) OTHER(specify):		(3) CAUSTICS		(3) MILLING/MINE TAILINGS		(3) RADIOACTIVE	
(4) ALUMINUM SLUDGE						(4) PESTICIDES		(4) FERROUS SMELTING WASTES		(4) MUNICIPAL	
(5) OTHER(specify):						(5) DYES/INKS		(5) NON-FERROUS SMLTG. WASTES		(5) OTHER(specify):	
Burnt Lime Sludge SET out to dry in an impoundment						(6) CYANIDE		(6) OTHER(specify):			
						(7) PHENOLS					
						(8) HALOGENS					
						(9) PCB					
						(10) METALS					
						(11) OTHER(specify):					

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
Burnt Lime in CONTACT COOLING WATER										

## VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

☒ A. HUMAN HEALTH HAZARDS

~~HAZARD DESCRIPTION~~

The waste is a high pH  
non-hazardous form



☐ B. NON-WORKER INJURY/EXPOSURE

X

POSSIBLY EXPOSED TO LIME PARTICULATE MATTER

☒ C. WORKER INJURY/EXPOSURE

POSSIBLY EXPOSED TO LIME PARTICLES

☐ D. CONTAMINATION OF WATER SUPPLY

UNKNOWN

☐ E. CONTAMINATION OF FOOD CHAIN

UNKNOWN

☐ F. CONTAMINATION OF GROUND WATER

UNKNOWN

☐ G. CONTAMINATION OF SURFACE WATERONLY IF BURNED LIME LEACHED INTO  
BLACK RIVER, BUT WE SAW NO EVIDENCE  
OF THIS

## VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA

NONE NOTED

☐ I. FISH KILL☐ J. CONTAMINATION OF AIRONLY FROM STACKS THROUGHOUT THE  
PLANT☒ K. NOTICEABLE ODORS

FROM COKE BUILDING'S STACKS

☐ L. CONTAMINATION OF SOIL☐ M. PROPERTY DAMAGE

# VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☐ U. OTHER (specify):

## IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS				
X 2. IN COMMERCIAL OR INDUSTRIAL AREAS		US. Steel Co operates around the clock		
3. IN PUBLICLY TRAVELLED AREAS				
4. PUBLIC USE AREAS (parks, schools, etc.)	BLACK RIVER USED AS	RECREATION, Industrial + INDUSTRIAL WATERWAY		ON BORDER OF SITE

## X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit)	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
known		
D. POTENTIAL YIELD OF AQUIFER	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure)	F. DIRECTION TO DRINKING WATER SUPPLY
G. TYPE OF DRINKING WATER SUPPLY		
<input type="checkbox"/> 1. NON-COMMUNITY < 15 CONNECTIONS* <input type="checkbox"/> 2. COMMUNITY (specify town): _____ > 15 CONNECTIONS		
<input type="checkbox"/> 3. SURFACE WATER <input type="checkbox"/> 4. WELL		

## VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

NONE DUE TO BURNT LINE IMPROVEMENT.

☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

NO PROBLEM

☐ P. SEWER, STORM DRAIN PROBLEMS

N/A

☐ Q. EROSION PROBLEMS

NONE NOTED

☐ R. INADEQUATE SECURITY

ADEQUATE SECURITY

☐ S. INCOMPATIBLE WASTES

DISPOSED

## X. WATER AND HYDROLOGICAL DATA (continued)

## H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
		UNKNOWN		

## I. RECEIVING WATER

1. NAME

☐ 2. SEWERS☐ 3. STREAMS/RIVERSBLACK RIVER to LAKE  
ERIE☐ 4. LAKES/RESERVOIRS☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

RECREATION + INDUSTRIAL

TRASH TRANSPORTATION

## XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE☐ B. KARST ZONE☐ C. 100 YEAR FLOOD PLAIN☐ D. WETLAND☐ E. A REGULATED FLOODWAY☐ F. CRITICAL HABITAT☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

## XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

<input checked="" type="checkbox"/> A. OVERBURDEN	<input checked="" type="checkbox"/> B. BEDROCK (specify below)	<input checked="" type="checkbox"/> C. OTHER (specify below)
1. SAND	UNKNOWN	
2. CLAY		
3. GRAVEL		

## XIII. SOIL PERMEABILITY

☒ A. UNKNOWN☐ B. VERY HIGH (100,000 to 1000 cm/sec.)☐ C. HIGH (1000 to 10 cm/sec.)☐ D. MODERATE (10 to .1 cm/sec.)☐ E. LOW (.1 to .001 cm/sec.)☐ F. VERY LOW (.001 to .00001 cm/sec.)

## G. RECHARGE AREA

☐ 1. YES☐ 2. NO

3. COMMENTS:

## H. DISCHARGE AREA

☐ 1. YES☐ 2. NO

3. COMMENTS:

## I. SLOPE

1. ESTIMATE % OF SLOPE

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

## J. OTHER GEOLOGICAL DATA

## XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UN- KNOWN

## XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE☐ YES (summarize in this space)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.



## ecology and environment, inc.

223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415

International Specialists in the Environmental Sciences

DATE: October 14, 1980

TO: William Goode

FROM: Daniel Cozza *DC*

RE: TDD# F5-8009-5; Site# 128 Hotline Call# 814 and Aerial Photos  
U.S. Steel Plant, Lorain, Ohio

On October 10, 1980, Robert Bartholomew, Anne Sause and the writer conducted an on-site inspection of the U.S. Steel Plant. The purpose of this site inspection was two-fold. The first objective was to follow up on a complaint, hot line call# 814, about burnt lime being dumped in an area near the river, and secondly to check out and clarify or identify areas shown in USEPA aerial photographs #836 and #839.

We were escorted throughout the site by Karl Kummant, plant engineer and Mike Schack, engineer. Mr. Kummant thoroughly explained the lime process including the lime plant's wet scrubber, and the large pond that is used for collecting the contact and non-contact cooling water. He also explained the process of dredging the cooling pond. This needs to be done every two to three years to clean out the settled burnt lime which enters the pond via the contact cooling water. We did find that the burnt lime impoundment, the area where the pond's dredgings are placed to dry, is in close proximity to the Black River, but we found no evidence of leachate running towards the river. It is suggested that perhaps the Ohio EPA take a closer look at the burnt lime impoundment soon after a heavy rain or after new dredging as the possibility of leachate is greater at these times than when the impoundment is dry, such as it was when we conducted our investigation.

By conducting the on-site inspection, the areas in question on the USEPA aerial photographs were identified. The large pond in photo #839 is used as a holding pond for cooling water as explained above. The disturbed area near the pond, photo #839, is a large pile of crushed limestone and the tank-like structures in photos #836, the area that is across the river from the U.S. Steel plant and is at the elbow of the dirt road that comes off of the main paved road, is composed of mounds of clay and limestone. The area is also used for the illicit dumping of solid household refuse such as water heaters, shingles, etc.

As for further action, the Ohio EPA should, as stated above, follow up on the investigation of the burnt lime impoundment. No further action is needed by the USEPA.

DC/df

Date: October 8, 1980

Time: 4:15 A.M. P.M.

Photograph By:

R. Bartholomew

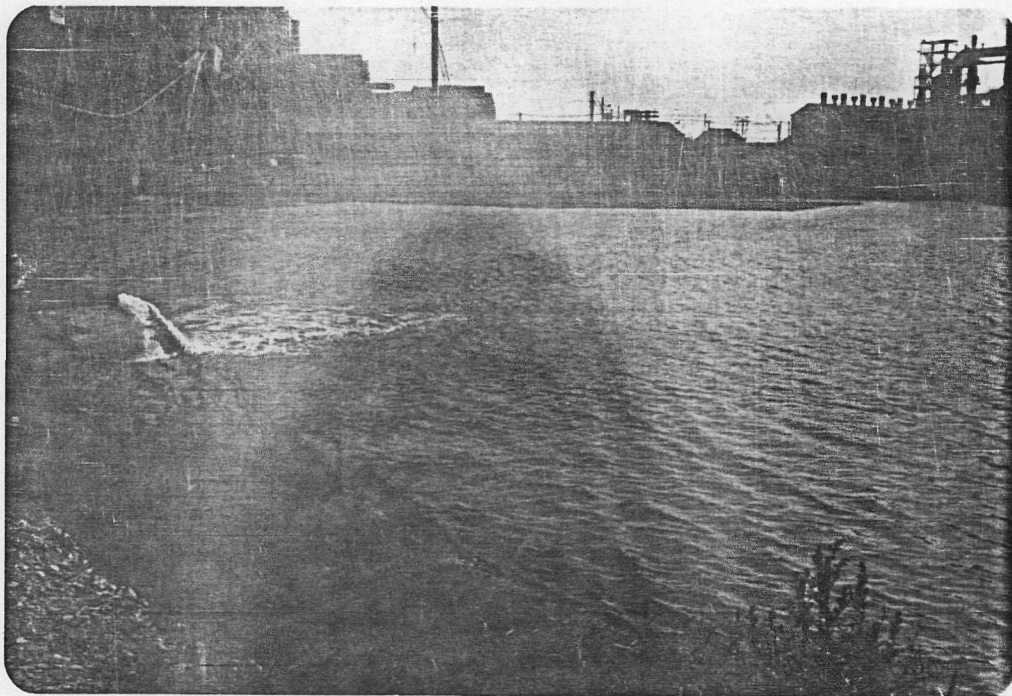
TDD# F5-8009-5

State- Ohio

Lorain U.S. Steel

Comments: Photograph taken

toward the south of the  
effluent running into  
the pond 1.



Date: October 8, 1980

Time: 4:15 A.M. P.M.

Photograph By:

R. Bartholomew

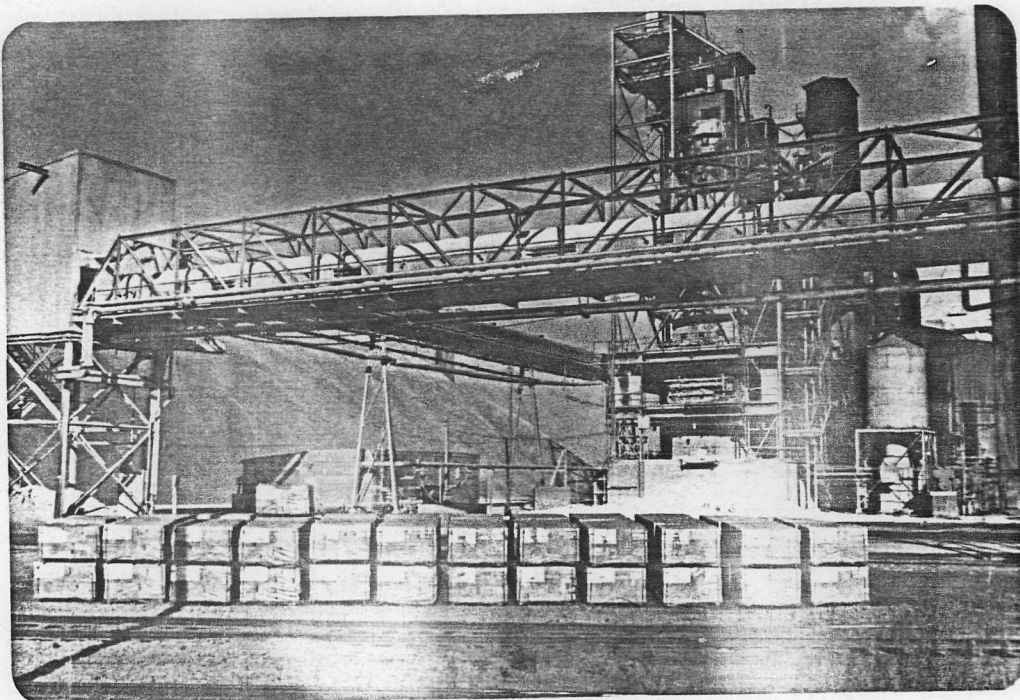
TDD# F5-8009-5

State- Ohio

Lorain U.S. Steel

Comments: Photograph taken

toward the north of the  
limestone pile, bricks  
and conveyor 2.



Date: October 8, 1980

Time: 4:15 A.M. P.M.

Photograph By:

R. Bartholomew

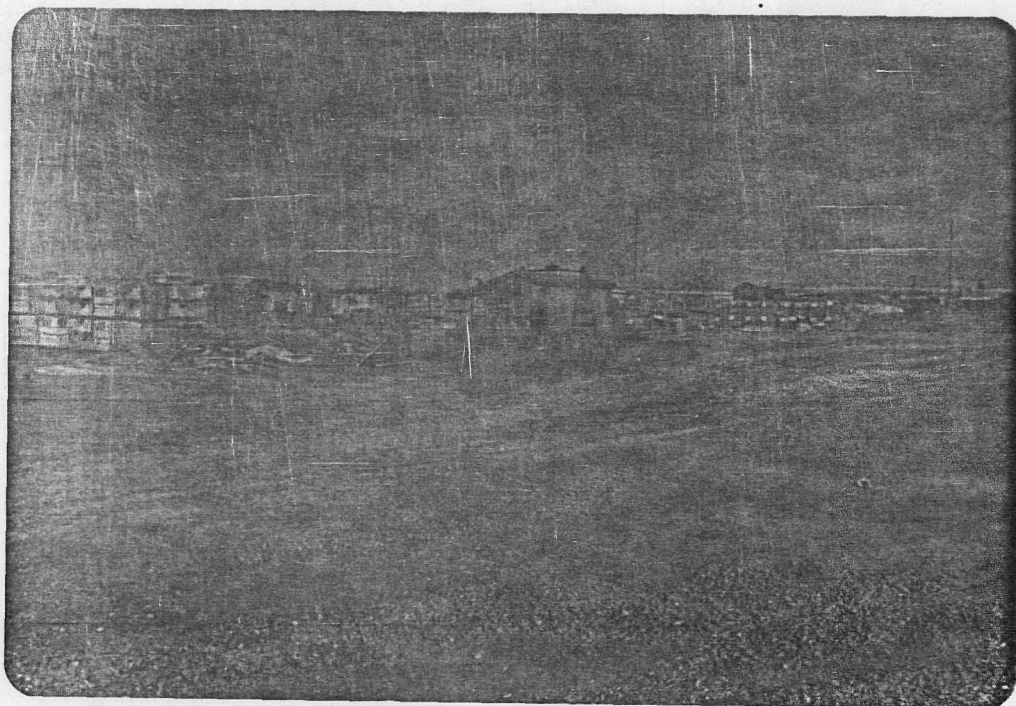
TDD# FS-8009-5

State- Ohio

Lorain U.S. Steel

Comments: Photograph taken

toward the east of brinks  
along road (thought to be  
barrels on aerial photo) 3



Date: October 8, 1980

Time: 4:15 A.M. P.M.

Photograph By:

R. Bartholomew

TDD# FS-8009-5

State- Ohio

Lorain U.S. Steel

Comments: Photograph taken

toward the northeast of  
property of U.S. Steel across  
the river from the plant 4.

